

CAPE COD PLANNING AND ECONOMIC DEVELOPMENT COMMISSION

1st DISTRICT COURT HOUSE, BARNSTABLE, MASSACHUSETTS 02630
TELEPHONE: 617-362-2511

TRAFFIC/ACCIDENT

DATA

REPORT:

Rt. 134

DENNIS, MASSACHUSETTS

Ву

The

CAPE COD PLANNING & ECONOMIC

DEVELOPMENT COMMISSION

September, 1984

ACKNOWLEDGEMENTS

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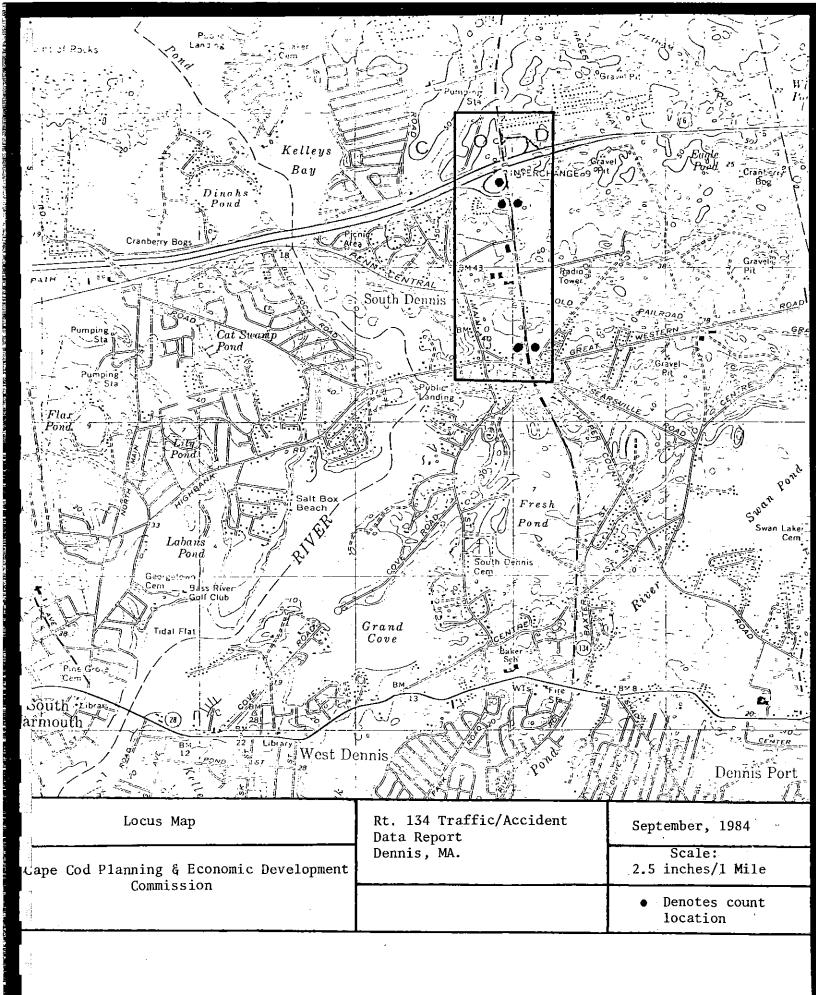


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INTRODUCTION

Project Request

The Cape Cod Planning and Economic Development Commission (CCPEDC), in February, 1984 was asked by the Dennis Town Selectmen to assist in conducting traffic and turning counts along Rt. 134. The request was included in the transportation work program of the Commission and was complemented by a program of traffic counts awarded by the Mass. Department of Public Works (MDPW). Both the Towns requests and the MDPW counts were performed concurrently in August of 1984. The main concern of this study was to identify the current traffic situation within this corridor and to use this data for planning and design improvements for Rt. 134.

Study Area

The study area is approximately 1 mile long. Contained along the route is significant commercial development beginning from the off/on ramps of Rt. 6 at Exit 9 southward to the Upper County Road intersection. In addition to the existing commercial/retail development, new development is pending and sufficient land is available for further development. This route serves as a principal north/south arterial with only limited alternative routes available. Rt. 134 is a two lane highway with two 12-14 foot travel lanes, one in each direction.

Traffic congestion along this town facility is historically heavy. With the current development proposals now moving forward, including the 150,000 sq. ft. shopping center, the congestion on Rt. 134 will further exacerbate the problem. The proposed shopping plaza alone, is anticipated to generate an additional 67% increase in Traffic.

Scope of Work

A scope of work was designed which called for a data inventory of a series of traffic volume counts, turning movement analysis, and an accident report summary. With input from the Dennis Town Engineers and the Town Planner, five traffic counts were selected and counted between midweek and the weekend. This provided an average weekday traffic volume along with the peak weekend traffic on Friday afternoon and Saturday morning. Ten turning movement counts were also taken at curb-cuts along Rt. 134. Accident data from January, 1982 to August 1984 was compiled by the Dennis Police Department. Some field work was performed by Vanesse/Hangen Associates on geometrics, and controls and safety were included as part of the inventory task.

From Vanesse/Hangen report, "Traffic Impact: Access Study; March 1984

Rt. 134 -- 48 Hour Counts

The Cape Cod Planning and Economic Development Commission, in cooperation with the Dennis Police and Engineering Departments, completed five 48 hour directional counts at the following locations:

- Rt. 134 Southbound, North of Exit 9/Rt. 6
- Rt. 134 Southbound, North of Great Western Road
- Rt. 134 Northbound, North of Great Western Road
- Rt. 134 Southbound, South of Exit 9
- Rt. 134 Northbound, South of Exit 9

The above counts were taken on August 17-19, August 10-14, August 10-14, August 17-19 and August 17-19, respectively.

The directional counts in both the northbound and southbound lanes provided a more precise account of the traffic patterns on Rt. 134. These directional counts also provided information on total daily traffic volume within the study area.

The average week-end traffic at the Exit 9 sites generated 29,663 vehicles. The Upper County Road sites produced 23,823 vehicles. This difference is due to the fact that the Exit 9 counts had to be retaken on the following week-end because of counter malfunctions. An average week-end count of 8,744 was also produced at the Exit 9 off-ramp (southbound).

Week end peak hour traffic at all locations was generally during late morning and mid-day. The peaks ranged from a high 41,394 (southbound, south of Exit 9) vehicles on a Saturday to 496 vehicles on the southbound lane north of Exit 9. The latter location was a Sunday peak occurring between 4:00 and 5:00 p.m. Refer to Appendix A for more detailed data. Generally, traffic flow was heaviest in the morning and reversed itself in the afternoon.

Rt. 134 Turning Movement Counts

The turning movement study was designed to augment the 48 hour traffic counts by providing an insight into what the traffic was doing once inside the study area. Traffic data was collected on the existing (10) curb cuts which included a percentage on how many cars entered each entrance and how many had to cross traffic for entering and exiting. This information provides a basis in determining the need for left hand turn lanes, geometric improvements and traffic lights. The time period chosen for the turning movements was a Saturday morning between 8 A.M. 12 noon. The weather, along with the summer rental changeover provided the study with a typical peak traffic scenerio. (see Appendix B for more detail)

The ten locations included the following:

- Post Office Road
- Rt. 134/Shell Gas Station Lot North Entrance
- Rt. 134/Shell Gas Station Lot South Entrance
- Rt. 134/Main Entrance to Harney's
- Rt. 134/Harney's Entrance Only
- Rt. 134/Mid-Cape Center
- Rt. 134/Theophilus Smith Road
- Rt. 134/Cumberland Farms Shopping Center South Entrance
 - Rt. 134/Cumberland Farms Shopping Center South Exit
- Rt. 134/Upper County Road

The data compiled from the turning movements taken August 11th over a 4 hour period produced a low percentage of total turning movements of 3% (Shell station) to a high of 12% at Theophilus Smith Road. The peak hour at the latter location produced 13% or 327 vehicles entering and exiting the landfill site.

Left hand turns from Rt. 134 (both directions) produced a total of 1,161 vehicles. This cross traffic movement represented close to 15% of the total traffic flow recorded between the hours of 8:00 and 12:00 p.m.

Activity within the curb cuts in the northern end of the study area show a trend of existing traffic travelling in a northerly direction. Post Office Road, which is a limited alternative to Rt. 134, has 87% of its exiting traffic moving southerly thereby enabling vehicles to reach destinations in the northern end without having to travel the whole length of Rt. 134. Concurrently 68% of the traffic entering Post Office Road is moving in a northerly direction.

Activity within the curb cuts at the northern end of the study area show a trend for exiting traffic to move northward towards Post Office Rd. or Main St. which are alternative routes North/South to 134. This enables a shopper at Harney's an alternative to bypass the congestion and delays of traveling Rt. 134 during the summer months. This is seen in the reverse in that 87% of the traffic exiting from Post Office Rd. moves in a southward direction towards the commercial area. These figures also indicate that Main St. handles a considerable amount of the overflow from Rt. 134 during its peak usage.

Rt. 134 Additional Traffic Counts

Traffic Impact and Access Study- Vanasse/Hangen Associates

Twenty-four hour counts were obtained by both manual and mechanical recorders during January, 1984. A mechanical recorder was located adjacent to the proposed shopping plaza. Manual counts were conducted during a Saturday afternoon peak period at the intersections of Route 134/Upper County Road/High Bank Road and Route 134/Rt. 6 ramps. All counts were seasonally adjusted to peak summer conditions.

The average Saturday traffic at the 134/Plaza site was calculated to be 22,100 vehicles. Traffic on Theophilus F. Smith Road was 2,908.

Massachusetts Department of Public Works Coverage Counts

Other 48 hour coverage counts taken during the month of August in the vacinity of the study area included:

- Main Street-north of Hibbards Road (8,237)
- North Dennis Road over Rt. 6 (5,329)
- Rt. 28 at Dennis/Harwich Town Line (17,808)

These counts represent the average weekday traffic in the area and have not been factored to average daily traffic conditions.

Rt. 134 Accident Data

Recent accident data for Rt. 134 was accumulated from two parties: Vanasse/Hangen Associates, January, 1982-December, 1983; and the Cape Cod Planning and Economic Development Commission(CCPEDC), January, 1984-August 1984. Both parties accumulated their data from the Dennis Police Department records. The data recorded included date, time of accident, road condition, day of the week, day--light or dark, number of injuries/fatalities and damage estimates. A collision diagram form produced by the Massachusetts Department of Public Works was used to record the location and the above information. In addition the CCPEDC staff augmented "Table 3, Accident Summary" produced by Vanasse/Hangen Associates. This table was up-dated to September, 1984.

A total of 115 accidents were reported in the study area during the 3 year period. A summary of accidents by location is presented in Appendix B. Review of the records highlights the following trends.

- 24% (27 accidents) occurred at intersection of Rt. 134/Upper County Rd., 14% (16 accidents) occurred at intersection of Rt. 134/Theophilus F. Smith Rd., 30% (35 accidents) occurred on Rt. 134 at the Route 6 ramps and the remaining 32% (37 accidents) occurred on the Rt. 134 link.
- 49% of the total accidents (56 accidents) were cross movement type collisions involved in turning movements. 34% (39 accidents) were rear end collisions.
- 33% of the total accidents (38) involved personal injury, while no fatalities occurred.
- 55% (63 accidents) occurred during the peak summer months and 15% in each of the winter, fall, and spring seasons.
- 11% of the accidents recorded took place during the morning commuter hours, while 13% occurred during the afternoon hours. The remaining 76% were recorded during the remaining hours.

Rt. 134 Field and Other Traffic Data

The following information was produced by Vanasse/Hangan Associates. The data is provided for completeness and reference.

- Pavement markings - double yellow center line

- Posted speed limit is 35 mph

- Rt. 134/Upper County Road/High Bank Road currently operates at level of Service (LOS) "B" or at 69% of capacity during design peak hour.

Rt. 134 with the Rt. 6 westbound and eastbound ramps operate at LOS "C" and "E", respectively. (C, 80% capacity) (E, unstable traffic flow)

Right of Way Width 100'

- Pavement Width 25'

Analysis/Recommendations

The analysis phase of the Rt. 134 Traffic Study currently being coordinated by the Town, will be performed by a private consultant. This report stands as the first phase of this study. Input from the Cape Cod Planning and Economic Development Commission during the analysis phase will be available at the Town request.

The analysis should contain the following activities:

- Traffic data adjustment to peak seasonal conditions
- Traffic generation forecasts for pending and planned developments
- Trip distribution (origin/destination)
- Travel time studies within corridor
- Systems analysis (level of service)
- Intersection analysis (signal timing, stop control etc.)
- Road link analysis

APPENDIX A:

48 Hour

TRAFFIC VOLUME SUMMARY

Stations 0002 - 0006 1-5

MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS EUREAU OF TRANSPORTATION PLANNING & DEVELOPMENT

VOLUME SUMMARY

CONDUCTED IN COOPERATION WITH FEDERAL HIGHWAY ADMINISTRATION

| Year1984 | Station No0002 |
|------------------------|---------------------------|
| Month <u>8/17-8/19</u> | Route No. SB Rt.134 North |
| Town <u>Dennis</u> | or Street of Exit 9, Rt.6 |

| Day | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Total |
|-----------------|-------------------|-------------|---------------|--------------|--------------|--------------|----------|---------------------------------------|
| Date | 1 | | | | 11101500) | 111009 | Suluiday | 10101 |
| 2-1 A.M. | 134 | | | | | | 94 | 24.1 |
| 1-2 | 76 | | | | | | 58 | 24 hr Day 1- 1,375 |
| 2-3 | 50 | | | | | | 34 | Day 1- 1,3/3 |
| 3-4 | 17 | | | | | | 12 | · · · · · · · · · · · · · · · · · · · |
| 4-5 | 20 | | | | | | | 24 hr |
| 5-6 | 36 | | | | | | 17 | Day 2 - 7140 |
| 5-7 | 90 | | - | | | | 33 | ADT - 7257 |
| 7-8 | 149 | | | | | | 77 | ADT - 7257 |
| 8-9 | 294 | | | | | | 189 | · · · · · · · · · · · · · · · · · · · |
| 3-10 | 423 | | | | | | 413 | Awg.Peak-541 |
|)-11 | | | | | | | 512 | 11 |
| 11-12 | 459 475 (48) | | | | | | 495 | Hi Peak - 573 |
| J2-1 P.M. | | | | · | | | 486(24) | |
| <u>-2</u> | 386 | | | | Start-7 | 517 | 424 | _ |
| | 390 | | | | | 444 | 415 | |
| 3-4 | 393 | | . | | | 443 | 442 | ; |
| 3-4 | 486 | | | | | 509 | 485 | |
| 5 | 496* | | | | | 553* | 573* | , |
| -6 6-7 | 467 | | | | | 549 | 493 | |
| 7 0 | 408 | | | | | 444 | 488 | ··············· |
| - '- 5 | | | | | | 419 | 435 | |
| 7-8 -9 10 | | | | | | 373 | 456 | |
| 5-10 | | | | | | 257 | 302 | |
| IC-li | | | | | | 271 | 236 | |
| 1 -12 | | | | | | 176 | 168 | |
| | | | | | | | | |
| Total | | | | | | | | |
| | 1 | | | | ···· | | | |
| _*4 | | | ſ | | ! | ł | | |

LOCATION OF COUNT- Southbound Rt.134 North of Exit 9 Rt.6

| ≒ No. 40 | Day | Weather | Road Conditions |
|----------|-----------|--------------|--------------------------------------------------|
| | Monday | | |
| | Tuesday | | |
| | Wednesday | | |
| | Thur sday | | |
| | Friday | Cool & Clear | Good |
| | Saturday | 11 11 | |
| | Sunday | 7.5 1.7 | |

| A.W.D.= | |
|------------|--|
| FACTOR=_ | |
| A. D. T. = | |

^{*}Peak Volume

MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS EUREAU OF TRANSPORTATION PLANNING & DEVELOPMENT

VOLUME SUMMARY

CONDUCTED IN COOPERATION WITH FEDERAL HIGHWAY ADMINISTRATION

| Year1984 | Station No0003 |
|-----------------|-----------------------------------|
| Month 8/10-8/14 | Roule No. SB on Rt.134 or |
| TownDennis | Street North of Great Western Rd. |

| Day | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Total |
|------------------|---------|-------------|----------------|---------------|---------------|---------------|--------------------|------------------------|
| Date | | | | | - mar addy | 111009 | Surarudy | 10101 |
| 2 - LAM. | 224 | 113 | 104 | | | | 266 | 24 1 |
| 1-2 | 144 | 54 | 67 | | | | 266 | 24 hr. |
| 2-3 | 93 | 51 | 38 | | | | 190 | Day 1-13,696 |
| 3-4 | 43 | 37 | 17 | | | | 116 | 24.1 |
| 1 – 5 | 34 | 24 | 30 | | - | | 47 36 | 24 hr. Day 2-11,819 |
| 5-6 | 20 | 41 | 41 | | | | 41 | Day 2-11,019 |
| 3-7 | . 70 | 138 | 131 | | - | | | 24 1 |
| '-8 | 146 | 287 | 299 | | | | 132 | 24 hr. |
| 8-9 | 288 | 489 | | | | | 301 | Day 3- 9,716 |
| 9-10 | 433 | 572 | - · | | - | - | 625 | 4 DW 3.1 7.4.4 |
| 9-11 | 532 | 752 | | | | | 834 853 | ADT 11,744 |
| 11-12 | 670(48) | 845(70) | | | | | 877(70) | Avg.Peak-912 |
| 12-1 P.M. | 727* | 892 | | | Start | 0.70 | | Avg. Peak-912 |
| _2 3 | 651 | 878 | | | Starte | 878 794 | 906 959 | Hi Peak- 999 |
| 3 | 690 | 916 | | | | 877 | 959 | ni Peak- 999 |
| 3-4 | 677 | 943* | | · | | | | |
| -5 -6 | 653 | 880 | | | | 944 982 | 981* | |
| -6 | 559 | 871 | | | | 999* | 980 | |
| 6-7 | 593 | 586 | | | | 772 | 838 | |
| 7-8 | 519 | 567 | | | | 792 | 789 761 | |
| 7-8 -9 10 | 428 | 467 | | | | 783 | 658 | <u> </u> |
| 10 | 365 | 469 | | | | 751 | 556 | * * |
| 10-11 | 269 | 376 | | | | 673 | $\frac{-330}{405}$ | |
| 1 -13 | 182 | 183 | | | | | | <u> </u> |
| | | | _ | | ' | 433 | 338 | |
| Total | | | | | ·· | | | |
| | | | | | | | | ··········· |
| | | i | · | | į | ĺ | ŀ | |

13 CATION OF COUNT- SB Rt.134 North of Great Western Road

| : | Doy | | |
|-------------|------------|----------|-----------------|
| 5 CX NO. 40 | Doy | Weather | Road Conditions |
| | Monday | | |
| | Tuesday | | |
| • | We dnesday | | |
| | Thu: sday | | |
| • | Friday - | <u>-</u> | |
| | Saturday | | |
| | Sunday | | |

| A.W.D.= | | |
|------------|---|--|
| FACTOR= | | |
| A. D. T. ≃ | • | |

^{*}Peak Volume

MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS EUREAU OF TRANSPORTATION PLANNING & DEVELOPMENT

VOLUME SUMMARY

CONDUCTED IN COOPERATION WITH FEDERAL HIGHWAY ADMINISTRATION

| Year 1984 | Station No0004 |
|-------------------------------------------|-----------------------------------------------------------|
| Month <u>8/10-8/14</u> Town <u>Dennis</u> | Route No. NB Rt.134 North or Street of Great Western Road |

| Doy | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Total |
|---------------|----------|------------|----------|-----------|-----------------------------------------|---------------------------------------|-------------|---------------------------------------|
| Date | } | | | | | 1.7.1.2.7 | Cararaay | 10/3/ |
| ! - I A.M. | 168 | 100 | 98 | | | | 147 | 24 hr |
| 1-2 | 168 | 83 | 89 | | | | 148 | Day1-12,895 |
| Ş- 3 | 102 | 47 | 50 | | | | 69 | |
| 3-4 | 49 | 33 | 23 | | | | 60 | 24 hr |
| 1-5 | 26 | 63 | 30 | | | l | 38 | Day 2 10,850 |
| 5-6 | 52 | 189 | 91 | | | | 73 | Day 2 10,030 |
| 5-7 | 104 | 331 | 205 | · · | | | 192 | 24 hr. |
| <u>'-8</u> | 202 | 502 | 456 | | | | 386 | Day 3-12,937 |
| 3-9 | 394 | 705 | 632 | - | 2.7 | | 692 | bay 0 12,00° |
| ે −10 | 551 | 814 | 725 | | | | 1017 | 24 hr 'i |
|)-11 | 823 | 1094* | 874* | | · · · · · · · · · · · · · · · · · · · | | 1103* | Day 4-11,633 |
| 11-12 | *947(48) | 1075 (72) | 858 (96) | | · - · · · · | · · · · · · · · · · · · · · · · · · · | 1061(24) | 20) 11,000 |
| 12-1 P.M. | 881 | 1002 | 739 | | Start | 978* | 923 | ADT 12,079 |
| _ 2 | 805 | 932 | 691 | | 0001.0 | 840 | 804 | |
| 2–3 | 787 | 920 | 667 | | | 840 | 690 | Awg.Peak-999 |
| 3-4 | 782 | 852 | | | | 848 | 719 | 3 |
| _ 5 | 726 | 777 | | | | 839 | 693 | Hi Peak 1103 |
| , <u>.</u> -6 | 744 | 714 601 | | | | 699 | 673 | |
| 6-7 | 759 | 601 | 1 | | | 656 | 688 | |
| 7 <u>-8</u> | 734 | 569 | 7. | | : | 614 | .641 | . 1 |
| -9 | 671 | 407 | | | | 554 | 392 | |
| 5-10 | 469 | 302 | | | | 446 | 420 | |
| 10-11 | 335 | 268 | | | · - · · · · · · · · · · · · · · · · · · | 325 | 337 | |
| ! -12 | 208 | 158 | | | | 270 | 284 | · · · · · · · · · · · · · · · · · · · |
| 1.1 | | | | <u>†</u> | | | | |
| Total | | | | | | | | |
| | | | | | | | | 7 |

I CATION OF COUNT- NB Rt.134 North of Great Western Road

| : Бек No 42 - 1 | Doy | Weather | Road Conditions |
|--------------------|-----------|---------------------------------------|-----------------|
| 1 42 | Monday | | |
| ! | Tuesday | | |
| | Wednesday | | |
| | Thursday | | |
| | Friday | | |
| | Soturday | | |
| | Sunday | · · · · · · · · · · · · · · · · · · · | <u> </u> |

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| FACTOR= | | | |
| A.D.T.= | _ | - | |

MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS BUREAU OF TRANSPORTATION PLANNING & DEVELOPMENT

VOLUME SUMMARY

CONDUCTED IN COOPERATION WITH FEDERAL HIGHWAY ADMINISTRATION

| Year1984 | Station No0005 |
|---------------------------------------|----------------------------|
| Month 8/17-8/19 | Route No. SB Rt. 134 South |
| TownDennis | or Street Oof Exit 9 |
| · · · · · · · · · · · · · · · · · · · | 01/00/ |

| Doy | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Total |
|------------------|-----------------|--------|---------|-----------|----------|--------|----------------|----------------|
| Date | | | | - | | | | |
| - I AM. | 296 | | | | | | 351 | 24 hrs |
| 1-2 | 220 | | | | | | 211 | Day 1-17,443 |
| :]- 3 | 122 | | | | | | 110 | |
| ;-4 | 48 | | | | - | | 48 | 24 hrs |
| 4-5 | 36 | | | | | | 37 | Day 2-14,518 |
| 5-6 | 34 | | | 1 | | | 54 | |
| 5-7 | 92 | | | | | | 123 | ADT - 15,980 |
| 7-8 | 197 | | | | | مامسا | 338 | , |
| 8-9 | 388 | | | | _ | | 843 | Avg.Peak-1,154 |
| 1-10 | 595 | | | | - | | 1109 1394 * | - '' |
| !)~11 | 731 | | | | | | 1394 * | Hi Peak- 1394 |
| 11-12 | <u>*815(48)</u> | | | | | | 1392(24) | |
| 1^- I P.M. | 746 | | | | Start | 1150 | 1016 983 | |
| _ 2 | 695 | | | | | 945 | 983 | |
| 2-3 | 759 | | | | | 987 | 1110 | |
| 3-4 -5 ⊍-6 | 788 | | · | | | 1064 | 1234 | |
| -5 | 796 | | | | | 1140 | 1257 | |
| "೮-6 | 780 | | | | | 1253* | 1024 | |
| 6-7 | 658 | | | | | 971 | 944 | |
| - 8 - 9 | | | | | | 940 | 910 | |
| _;·j−9 | <u> </u> | | | | • | 925 | 775 | |
| 9-10 | | | | | | 601 | 720 | |
| 70-11 | | | | | _ | 820 | 573 | |
| 1 -12 | | | | | | : 637 | 398 | |
| · | | | | | | | : | |
| Total | | | | | | | | |
| i. | Ì | | ĺ | | | | | |

I LATION OF COUNT- SB Rt.134 South of Exit 9 Rt.6

| Scx No. 42 | Day | Weather | Road Conditions |
|------------|----------------|--------------|-----------------|
| <u> </u> | Monday | | |
| | Tuesday | | |
| | Wednesday | | |
| | Thursday. | | |
| | Friday | Cool & Clear | Good |
| | Saturday | | |
| | Sund ay | | |

| A.W.D.= | |
|------------|------|
| FACTOR= | |
| A. D. T. = | |

MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS BUREAU OF TRANSPORTATION PLANNING & DEVELOPMENT

VOLUME SUMMARY

CONDUCTED IN COOPERATION WITH FEDERAL HIGHWAY ADMINISTRATION

| Year1984 | Station No0006 |
|-----------------|---------------------------|
| Month 8/17-8/19 | Route No. NB Rt.134 South |
| Town Dennis | Streetof Exit 9 |

| Day | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Total |
|-------------------|----------------------------------------------|--------|---------|-------------|-------------|--------|----------|---------------|
| Date | | | - | | | | | |
| - I A.M. | 234 | | _ | | | | 157 | 24 hr. |
| 1-2 | 192 | | - | | | | 152 | Day 1 -14048 |
| _ | 96 | | | | | _ | 73 | |
|) - 4 | 65 | | | | | | 43 | 24 hr. |
| 4-5 | <u>3</u> 5 | | | | | | 53 | Day 2 -13319 |
| 5-6 | 70 | | | | · -, | | 95 | |
| <u>-7</u> | 160 | | | | | | 237 | ADT 13683 |
| <i>i</i> –8 | 294 | | | | | | 487 | |
| -10 -10 | 518 | | | | | | 841 | Avg.Peak 1051 |
| -10 | 801 | | | | | | 1085 | |
| 1.)-11 | 988 | | | | | | 1146* | Hi Peak 1146 |
| 11-12 | *1025(48) | | | | · · · · · · | | 1034(24) | |
| 17-1 P.M. | 865 | | | | Start 7 | 893 | 889 | |
| _2 | 845 | | | | | 851 | 780 | |
| 2-3 | 922 | | | | | 839 | 826 | |
| 3-4 | 981 | | | | | 870 | 831 | |
| <u>-5</u> | 931 | | | | | 979* | 938 | |
| ు ' −6 | 941 | | | | | 894 | 925 | |
| 6 - 7 | 882 | | | | | 845 | 858 | |
| - 8 - 9 | <u> </u> | | | | | 721 | 801 | |
| | | | | | | 629 | 715 | , |
| 9-10 | | | | | | 478 | 558 | |
| 10-11 | | | | | | 359 | 402 | |
| 1 -12 | ļ | | i | | ÷ | 281 | 318 | |
| Total | | | | | | | | |
| -10101 | | | | | · · · | | • | |
| F | | | | | | ž. | | |

LOCATION OF COUNT- NB Rt.134 at Exit 9 (Rt.6)

| Bex No. | Day | Weather | Road Conditions |
|-------------|-------------|--------------|-----------------|
| 3 E X 19 O. | Monday | | <u> </u> |
| | Tuesday | | |
| _ | V./ednesday | • | |
| | Thursday. | | |
| | Friday | Cool & Clear | Good |
| | Saturday | 11 11. | 11 |
| | Sunday | 11 11 | н |

| A.W.D.= | | | |
|------------|---|-----------|--|
| FACTOR= | | · · · · · | |
| A, D, T, = | • | | |

[13]

APPENDIX B:

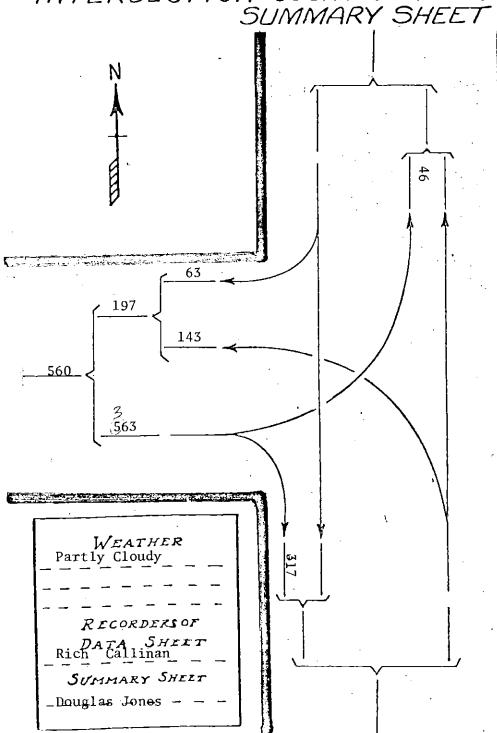
Rt. 134 TURNING MOVEMENT COUNTS

Stations 01 - 10

| | 3 |
|----------------------------------|--------|
| Room 801, 100 Nashud St., Boston | DATE |
| DISTRICT NO. STATION NO. 01 | |
| DEPARTMENT OF PUBLIC WORKS | LOCATA |
| COMMONIVERENTIA | CITYO |
| | 3 r — |

| CITYOZ TOWN Dennis |
|-----------------------------------------|
| LOCATION Post Office Rd. |
| *************************************** |
| DATE OF COUNT 8/11/84 CAY Sat |

INTERSECTION COUNT OF VEHICULAR TRAFFIC



| VEHICLES COUNTED | | | | | |
|------------------|---------|-------|------|--|--|
| CLASSES | Sources | | | | |
| | ALL | ووديد | FORM | | |
| ALL | χ | | | | |
| PASS. CARS | | | | | |
| LIGHT TRUCKS | | | | | |
| HEAVY TRUCKS | - | | | | |
| Busses | | | | | |
| STREET CARS | | | | | |

| LENGI | TH O |) <i>F</i> | COL | 7N1 | |
|------------|------|------------|-----|-----|---|
| TIME | N | o. a# | Ho | UR. | 5 |
| | 24 | 16 | 8 | 2 | 4 |
| your and | | | | | |
| 7 " (o 11" | - | | | | |
| 11 to 7 | | | | | |
| 4" to 6" | | | | | |
| 8 to 12 | n | | | | х |

| ENTERING TRAFFIC | TOTAL I | FZOW | PEAK HOUR | | CHE | • |
|------------------|---------|----------|-----------|----------|---------|----------|
| (NAME OF STREET) | NUMBER | PER CENT | NUMBER | PER CENT | DNUOBNI | ONTBOUND |
| Rt. 134 | 7953 | 93% | 2249 | 93% | | |
| Post Office Rd. | 560 | 7% | 172 | 7% | | |
| TOTAL | 8513 | 100% | 2421 | 100% | | |

: 4

| | · · · |
|----------------------------------|-----------------------------------------------------------|
| COMMONWEALTH OF MASSACHUSETTS | CITYOZ TOWNDennis |
| DEPARTMENT OF PUBLIC WORKS | LOCATION Rt 134 Shell Gas. |
| DISTRICT NO. STATION NO. 02 | Station-lot North entrance Date or Count 8/11/84 On Sat |
| Room Bol, 100 Nashud St., Boston | DATE OF COUNT 0/11/04 DAY Sat |
| INTERSECTION COUNT SUMMARY | OF VEHICULAR TRAFFIC |
| | VEHICLES COUNTED |
| N | CLASSES SOURCES ALL MASS FORM |
| | ALL |
| | PASS. CARS |
| | LIGHT TRUCKS |
| | HEAVY TRUCKS |
| | Busses |
| | STREET CARS |
| (137 | |
| | |
| $\left(\frac{146}{2}\right)$ | |
| | |
| 214 | |
| | |
| 68 | |
| | |
| | |
| | |
| | LENGTH OF COUNT |
| WEATHER | TIME No. OF HOURS |
| Partly cloudy ∞ | 24 16 8 2 4 |
| _ Humid | 74.5 |
| RECORDERSOR | 7 10 11 m |
| DATA SHEET | 11 20 I |
| Rich Callinan | |
| SUMMARY SHEET Douglas Jones | 4"106" |
| [3] | gam ₊ p ₋ m. |

| ENTERING TRAFFIC (NAME OF STREET) | TOTAL Wimbor of hours | FLOW | PEAK HOU | | CHE | - |
|--------------------------------------|--------------------------|----------|----------|----------|---------|--------------|
| (NAME OF STREET) | NUMBER | PER CENT | NUMBER | PER CENT | INSOUND | OUT BOUND |
| Rt. 134 | 7953 | 97% | 2249 | 97% | | |
| Vingos to no spicer | 214 | 3% | 64 | 3% | | |
| TOTAL | 8167 | 100% | 2313 | 100% | | |

8^{am}to 12^m

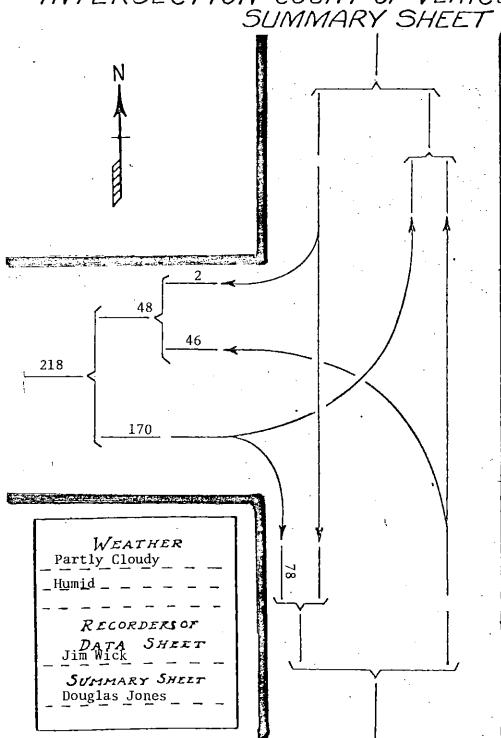
COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF PUBLIC WORKS

DISTRICT NO. STATION NO. 3

Room 801, 100 Nashud St., Boston

INTERSECTION COUNT OF VEHICULAR TRAFFIC



| V E HICLES | Cov | NT | ED | | | |
|--------------|---------|------|------|--|--|--|
| CLASSES | SOURCES | | | | | |
| | ALL | MA35 | FORK | | | |
| ALL | х | | | | | |
| PASS. CARS | | | | | | |
| LIGHT TRUCKS | | | | | | |
| HEAVY TRUCKS | | | | | | |
| Busses | | | | | | |
| STREET CARS | | | | | | |

| LENGT | r H (|).F | Col | /W.Z | - |
|-----------------------|--------------|-------|-----|------|---|
| TIME | No | o, o₽ | Ho | URS | 2 |
| | 24 | 16 | 8 | 2 | 4 |
| The T | | | | | |
| 7 " (o 11" | , | | | | |
| 11 to 7 | | | | | |
| 4" 10 5" | | | | | |
| 8 ^{am} to 12 | | | | | x |

| ENTERING TRAFFIC | TOTAL I | ZOW | PEAK HOUF | | CHE | |
|------------------------|---------|----------|-----------|----------|---------|----------|
| (NAME OF STREET) | NUMBER | PER CENT | NUMBER | PER CENT | INBOUND | OUTBOUND |
| Rt. 134 | 7953 | 97% | 2249 | 97% | | |
| Shell Station Southern | 218 | 3% | 63 | 3% | | |
| ent. TOTAL | 8171 | 100% | 2312 | 100% | | |

| | | TICITY | OZ DYM + | | | 1 |
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| DAMONWEALTH OF MASSA | ACHUSE 1 13 | IOCA | 720VRt134 | l.G.Main Ent | _to | |
| - I I - A - T OF L1 IMI A V | JUNIO | 1120 | Howmones | | ····· | |
| a Ab STATIO | Y/ TU | DATE | Harneys. | /11/-84 OA | <u>Sat</u> | ٠, |
| Room Bol, 100 Nashud | st., Boston | | | TOAFF | 10 | 1. |
| INTERSECTION | · COUNT | OF VEH | <i>IICULA</i> K | IRAII | 70 | - |
| INTERSECTION | COUNT | 1 SUE | | | UNTED | |
| 774727 | SUMMAR) | YORLU | - ' - ' - ' | EHICLES CO | DNIZZ | į |
| ı | | | | ASSES A | LL MASS FORM | |
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| N | | À | AL | | | |
| | 1 | 1 | PA | SS. CARS | | |
| , 🛦 | | | | GHT TRUCKS | | 1 |
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| V | | į, j | 5 | TREET CARS | | , |
| | | 1 | | | | |
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| 218 | | 1 - | | | | . 1 |
| 252 | | 1 | | | | • |
| (-232 < | } | / / | | | | |
| 34 | - | | | | | |
| 895 | | -/ | | | | 12 |
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| | | Ý. | \ \ | LENGTH OF | COUNT | |
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| Partly cloudy | 332 | | | 7 mg , 7m | 1 1 1 | 1 |
| Humid | . | | | | | |
| | - \ | | | 7 40 12 | | |
| RECORDERSOF | 332 | | | 30 00 | 1 1 | |
| | | | , | 11 10 7 | | <u> </u> |
| Jim Wick | - ' | | | 4 10 6 TH | | |
| SUMMARY SHEET | | _ | | 8 to 12 pm | T | x |
| Douglas Jones | - | Ì | e leeft fa | 8 10 12 | Jl | |
| | |] | 5 | | | |
| | | | | OFION | CHEC | K |
| | TOTAL F | ZOW | PEAK HOU | A / 2011 | INBOUND | OUTBOUND |
| ENTERING TRAFFIG | Number of hours | PER CENT | NUMBER | PER CENT | 111000 | 1.5 |
| (NAME OF STREET) | NUMBER | | 2249 | 89% | | |
| | 7953 | 89% | | 11% | | |
| Rt. 134 | 895 | 11% | 265 | | | |
| Harney's Main Ent. | | | 0514 | 100% | | \ |
| 50 5 5 00 T | 8948 | 100% | 2514 | | J | |
| TOTAL | 1 | | 18 | | _ | <u>.</u> 2. |

| COMMONWEALTH OF MASSACHUSETTS | | / Dennis | |
|-----------------------------------------------------------------------------|----------------------------------------------|------------------|----------------------|
| DEPARTMENT OF PUBLIC WORKS | LOCATION R | t. 134 & Harneys | |
| DISTRICT No. STATION NO05 | Entran | ce only | |
| Room 801, 100 Nashud St., Boston | DATE OF COUNT | r8/-11/-84 | Oay Sat_ |
| INTERSECTION COUNT OF SUMMARY S | VEHICUL | AR TRAF | FIC |
| | | VEHICLES | COUNTED |
| N | | CLASSES | ALL YASS FORK |
| · · · · · · · · · · · · · · · · · · · | | ALL | x |
| | | PASS. CARS | |
| | | LIGHT TRUCKS | ╏ ──┼───╅ |
| | 4 | HEAVY TRUCKS | |
| | 1 | Bussis | _ |
| | , , , , , , , , , , , , , , , , , , , | STREET CARS | |
| $ \begin{array}{c c} \hline & 331 \\ \hline & 164 \\ \hline \end{array} $ | では、 | | .7.7 |
| | | • • | |
| Entrance only | | | |
| | | | |
| | `\\ | | |
| | | LENGTH or | COUNT |
| WEATHER | | No o | F Hours |
| Dant las aloudes | * |) <i>((1)</i> | 5 8 2 1 |

| ENTERING TRAFFIC | TOTAL Wenter of hours | FZOW | PEAK HOU | 1 | CHE | , |
|------------------|--------------------------|----------|----------|----------|---------|----------|
| (NAME OF STREET) | NUMBER | PER CENT | NUMBER | PER CENT | INBOUND | OUTBOUND |
| Rt. 134 | 7953 | 96% | 2249 | 96% | | |
| Harney's Ent. | 331 | 4% | 103 | 4% | | - |
| TOTAL | 8284 | 100% | 2352 | 100% | | |

11 to T

<u>Humid</u>

RECORDERSOF

DATA SHEET

_ Jenny York — — —
SUMMARY SHEET

_ _Douglas_Jones_

| · | | | |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------|
| COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS DISTRICT NO. STATION NO. 106 Room 801, 100 Noshud St., Boston | Location Rt | Dennis 134 and Mid C | |
| INTERSECTION COUNT OF SUMMARY S | | | FIC |
| N | · · · · · · · · · · · · · · · · · · · | CLASSES | ALL MASS FORM |
| 1 | | ALL | x |
| | | PASS. CARS | |
| † <u> </u> | | LIGHT TRUCKS | |
| | <u> </u> | HEAVY TRUCKS | |
| | 80 | Busses | |
| | | STREET CARS | |
| | The second secon | | |
| | | - | |

| LENGI | H | - T | Cot | /N I | • |
|-----------------------|----|------------|-----|------|----|
| TIME | No | 7. م | Ho | URS | 5 |
| 23712 | 24 | 16 | 8 | Z | 4 |
| your In | | | | | |
| 7 10 11 | | | | | |
| 11 to 7 | | | | | |
| 4"10 6" | | | | | |
| 8 to 12 ^{pi} | n | | | | C: |

| ENTERING TRAFFIC | TOTAL FLOW / | | PEAK HOURFLOW | | CHECK | |
|------------------|--------------|----------|---------------|----------|---------|------------|
| (NAME OF STREET) | NUMBER | PER CENT | NUMBER | PER CENT | INBOUND | OUT BOUND |
| Rt. 134 | 7953 | 93% | 2249 | 92% | | ļ <u> </u> |
| Mid Cape Center | 575 | 7% | 186 | 8% | | |
| TOTAL | 8528 | 100% | 2435 | 100% | | |

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160

249

WEATHER
Partly cloudy —

RECORDERSOF

SUMMARY SHEET
Douglas Jones

SHEET

Humid _ _

Bob Cody

|) | INMIONWEALTH OF MASS I SPARTMENT OF PUBLIC DISTRICT NO. STATA | 07 07 07 | Loc | ATON Rt 1-34 Rd | and-Theophi | lus Smith | |
|---|---------------------------------------------------------------------|--------------------------------------|-----------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|
| | 200m 801, 100 Noshua | Y COUNT SUMMAR | OF VEN SHE | HICULAR V CL AL PA LIG HE BU 57 | TRAFI EHICLES C ASSES L SS. CARS HT TRUCKS AVY TRUCKS SSIS REET CAKS 485 LINGTH O. TIME NO. TIME PART TO TO ATTO TO TO | CHEC | 4 4 |
| ĺ | ENTERING TRAFFIC (NAME OF STREET) | TOTAL F Number of hours NUMBER | ZOW PER CENT | NUMBER | PER CENT | INBOUND (| λυτ Βου Ν Ο |
| | D+ 134 | 7953 | 88% | 2249 | 87% 13% | | |
| | T.F. Smith Rd. | 1036 | 12% | 327 | 100% | | |
| | 501 5 oct | 8989 | 100% | 2576 | 100% | <u> </u> | |

TOTAL

| COMMONWEALTH OF MASSACHUSETTS | CITYOF TOWN Dennis |
|----------------------------------|----------------------------|
| | Locarov Rt. 134 Cumberland |
| DISTRICT NO. STATION NO. 08 | Shopping Center South Ent |
| Room Bol, 100 Noshud St., Boston | DATE OF COUNT 8/11/84 |
| | <u> </u> |

Farms

On Bat INTERSECTION COUNT OF VEHICULAR TRAFFIC SUMMARY SHEET VEHICLES COUNTED SOURCES CLASSES ALL MASS TORN ALL PASS. CARS LIGHT TRUCKS HEAVY TRUCKS BUSSIS STREET CAKS 215 494 137 279 142 LENGTH or COUNT WEATHER No. or Hours Partly cloudy TIME 24 16 2 4 Humid 7 4. 7 7 "to 11" RECORDERSOR DATA SHEET Chas. Battle 11 to I SUMMARY SHEZT _Douglas-Jones- -8. to 12m

| | <u>.</u> | <u>.</u> | | | <u></u> | · · · · · · · · · · · · · · · · · · · |
|------------------------|----------|----------|---------|----------|---------|---------------------------------------|
| E ITERING TRAFFIC | TOTAL | | | CHECK | | |
| TIAME OF STREET | NUMBER | PER CENT | NUMBER. | PER CENT | INBOUND | סמעכם דעם |
| Rt. 134 | 7953 | 94% | 2249 | 93% | | |
| Cumberland Farms South | 494 | 6% | 174 | 7% | | |
| 707AL | 8447 | 100% | 2423 | 100% | | |

22

| COMMONWEALTH OF MASSACHUSET TS | |
|----------------------------------|--|
| DEPARTMENT OF PILL IN WOOMS | |
| DISTRICT NO. STATION NO. 09 | |
| Room 601, 100 Noshud St., Boston | |

CITYOZ EIVN Dennis

LOCATION Rt. 134 Cumberland Farms
Shopping Area North ent.

Date of Count 8/11/84 Day SAT.

INTERSECTION COUNT OF VEHICULAR TRAFFIC SUMMARY SHEET VEHICLES COUNTED SOUNCES CLASSES ALL Year Tran ALL PASS. CARS LIGHT TRUCKS HEAVY TRUCKS BUSSIS STREET CARS 455 746 214 291 77 LINGTH or COUNT WEATHER No. or Hours TIME Partly Cloudy 16 8 2-7 Humid 7 4. 7 $Z^{\prime\prime\prime}_{lo} n^{\prime\prime\prime}$ RECORDERSOF DATA SHIET Jenny York 11 to 7 SUMMARY SHEET 4 40 6 Douglas Jones 8. to 12

| | | | | | <u></u> |
|------------|-------------|-----------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TOTAL FLOW | | PEAK HOU! | RFLOW | CHECK | |
| NUMBER | PER CENT | NUMBER | PER CENT | TNBOUND | סאנים ש דעט |
| 7953 | 91% | 2249 | 91% | | |
| 746 | 9% | -206 | 9% | | |
| 8699 | 100% | 2455 | 100% | | |
| | 7953 | 7953 91% 746 9% | NUMBER PER CENT NUMBER | NUMBER PER CENT NUMBER PER CENT .7953 91% 2249 91% .746 9% 206 9% | Time CALC NUMBER PER CENT NUMBER N |

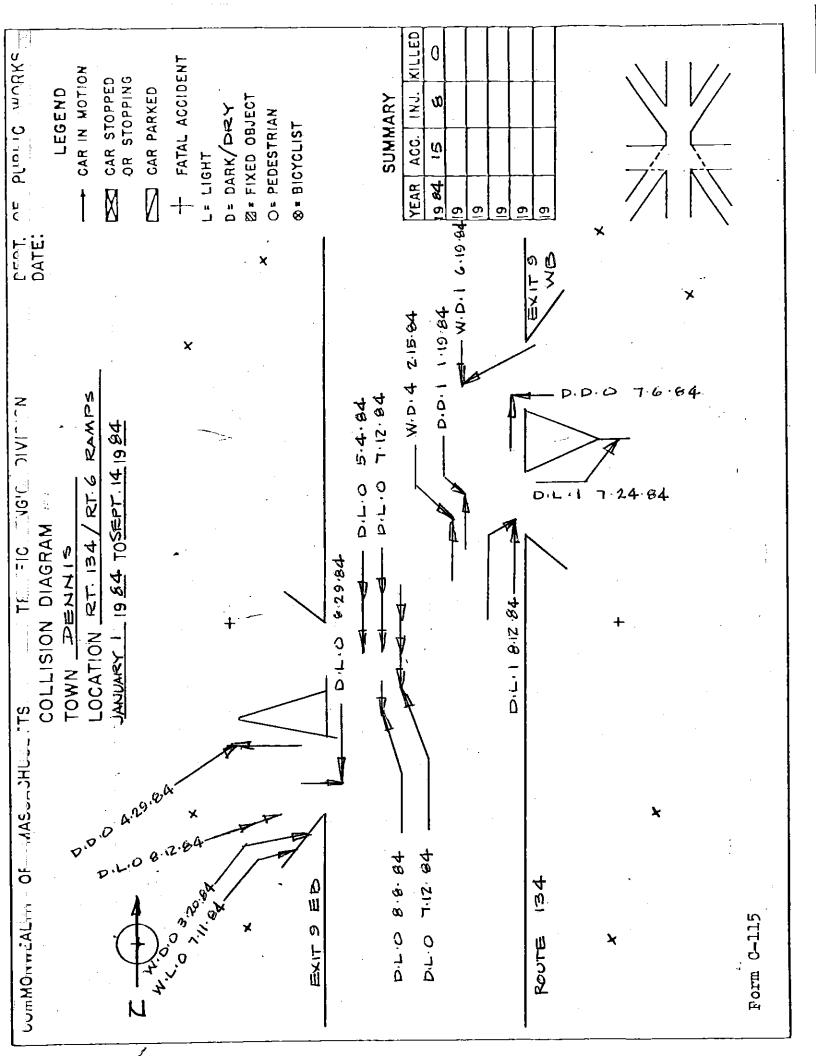
| COMMONWEALTH OF MALE DEPARTMENT OF PURPLE STATE OF THE DISTRICT NO | BLIC WORKS | J 1 | Dennis 134_& Upper County Rd |
|--------------------------------------------------------------------|--------------------|---------------|---------------------------------------|
| ROOM COI, 100 NASHUA | | DATE OF COUNT | 8/11/84 DAY Sat |
|) INTERSECTION | COUNT OF SUMMARY S | | TRAFFIC : |
| TIME OF COUNT | | | |
| HOUR TO HOUR NO. OF HOURS | 1 | rd . | |
| 1 a.m. to noon 2 hours | | 4 | |
| | | 281 | |
| | | | |
| $\frac{433}{725} = \frac{126}{725}$ | | | |
| 307 | | | } |
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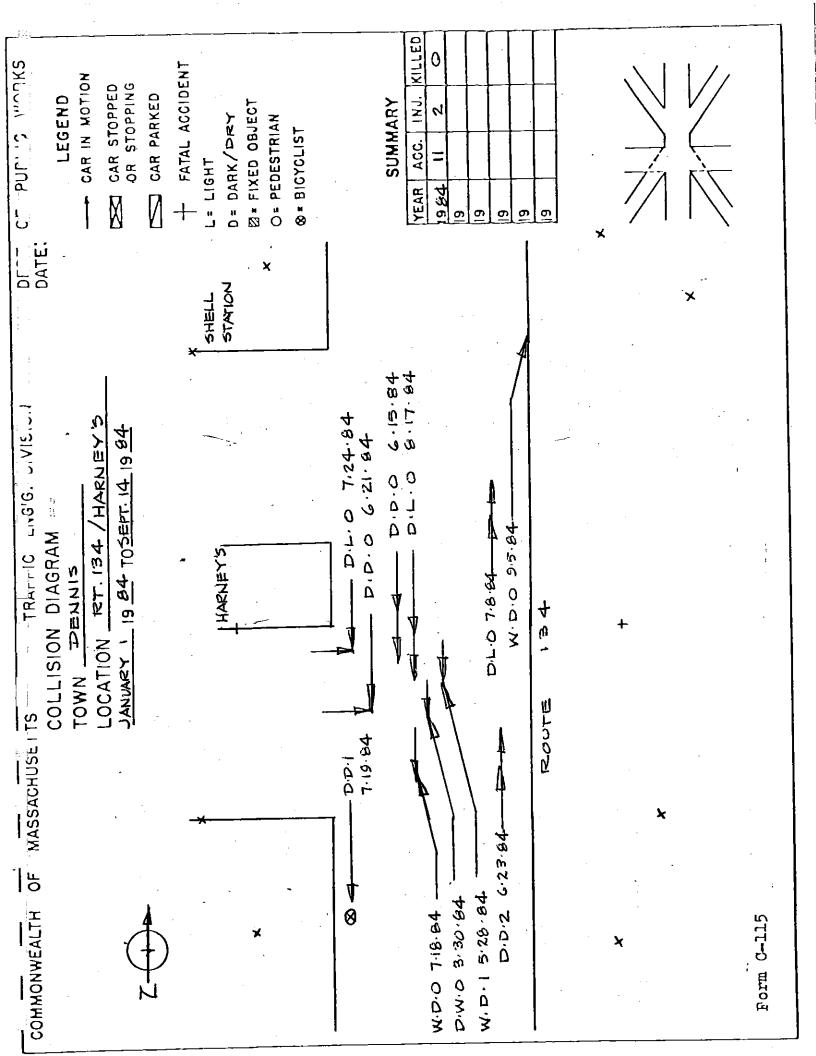
APPENDIX C

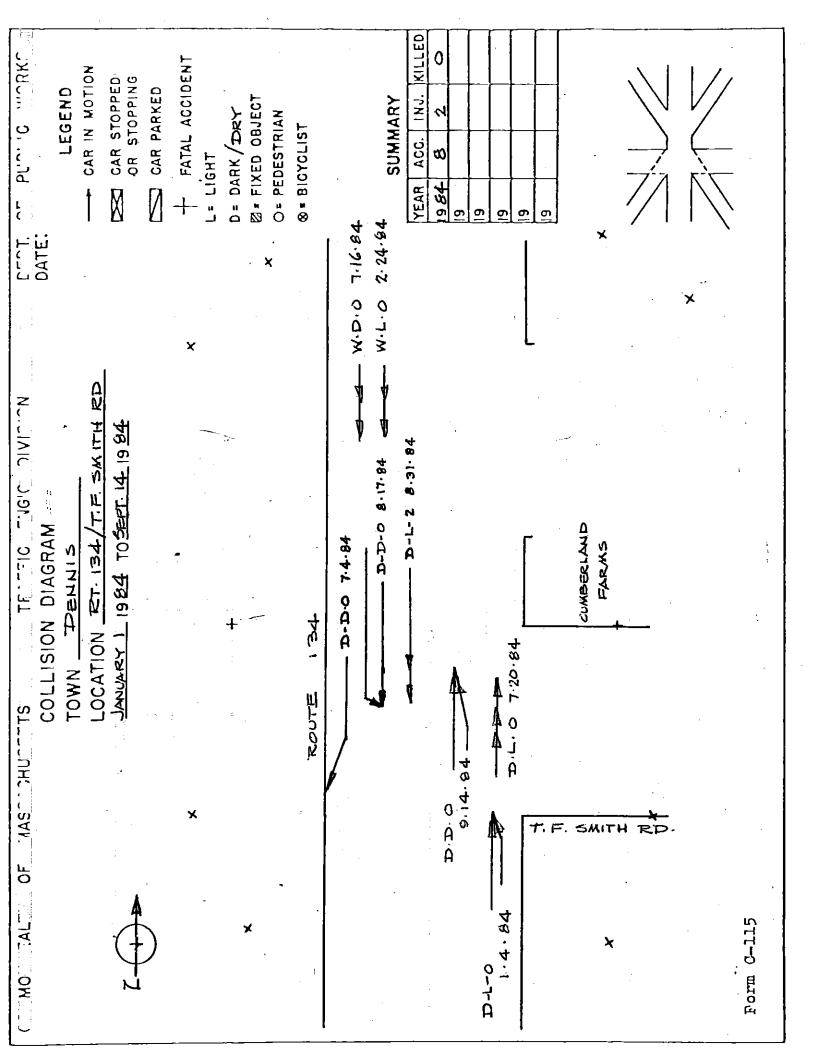
Rt. 134 COLLISION DIAGRAMS

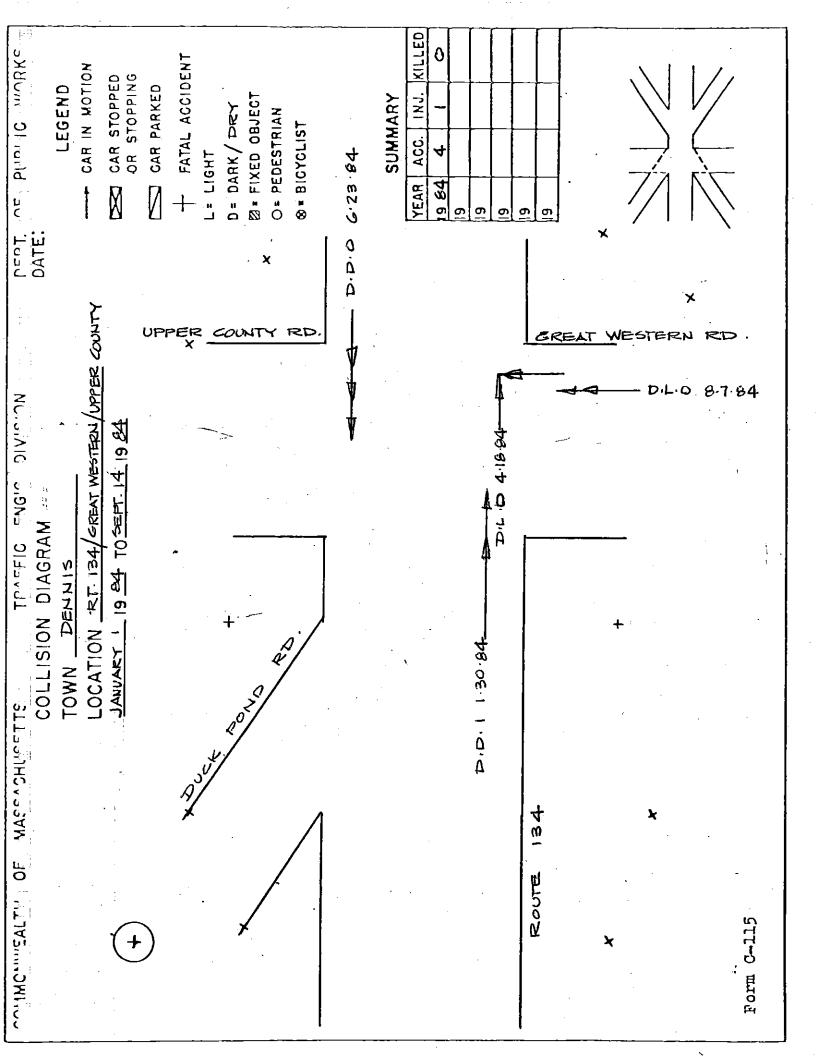
and

TABLE 3, ACCIDENT SUMMARY









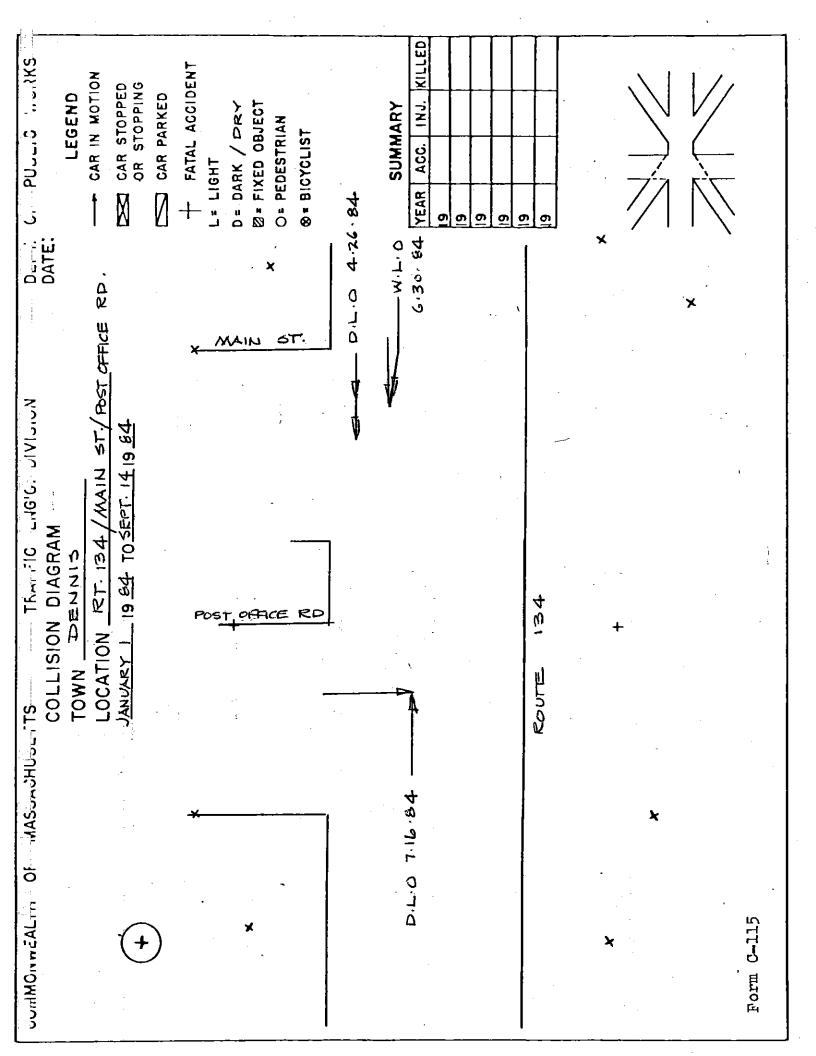


TABLE 3

ACCIDENT SUMMARY

JANUARY, 1982 to DECEMBER, 1983

| | Route 134/Upper County Road/ High Bank Road | Route 134/ Theo. F. Smith Road | Route 134/3 Route 6 Ramps | Route 134 Link | Total |
|-----------------------------------------------------|---------------------------------------------------|--------------------------------------|---------------------------------|---------------------------|----------------------|
| ACCIDENT TYPE | | | - , | | |
| Rear-end Cross-Movement Fixed Object Other | 12 14 1 | 4 10 1 1 | 11 15 4 _5 | 12 17 2 <u>6</u> | 39 56 8 12 |
| Total | 27 | 16 | -5 35 | 37 | 115 |
| SEVERITY | | | | • | |
| Property Damage Only Personal Injury | 18 <u>9</u> | 8 8 | 25 10 | 26 11 | 77 38 |
| Total | 2 7 | 16 | 35 | 37 | 115 |
| SEASON | | | • | | i |
| Winter Spring Summer Fall | 7 3 14 <u>3</u> | 2 2 10 <u>2</u> | 3 4 22 <u>6</u> | 5 9 17 <u>6</u> | 17 18 63 17 |
| Total | 27 | 16 | 35 | 37 | 115 |
| DAY OF WEEK | | | | | |
| Monday-Thursday Friday-Sunday | 17 10 | 6 10 | 24 <u>11</u> | 17 20 | 64 41 |
| Total | 27 | 16 | 35 | 37 | 115 |
| TIME OF DAY | | | | | |
| 7:00-9:00 AM 4:00-6:00 PM Rest of Day | 2 6 <u>19</u> | 2 0 14 | 4 4 27 | 5 5 27 | 13 15 87 |
| Total | 27 | 16 | . 35 | 37 | 115 |